

REVISIONS TO SPECIFICATION

Page 5, lines 22-28, please amend as follows:

The invention further concerns an X-ray detector with an array of sensor elements for the spatially resolved detection of optical photons and with a scintillator that is arranged (directly or indirectly) adjacent to said array, the scintillator comprising the following components: a scintillation layer for the conversion of X-radiation into optical photons and means for altering the degree to which optical photons that are produced in the scintillation layer are reflected back into the scintillation layer ~~an~~on at least a part of the surface of the scintillation layer.